CLAYTON FIELD OFFICE

		CU - IN./[DAY		CIR - IN/	DAY	ACIR - IN/DAY			
MONTH	PEAK	MEAN	LOW	PEAK	MEAN	LOW	PEAK	MEAN	LOW	
APRIL										
MAY	.18	.15	.06	.07	.06	.02	./3	.//	.04	
JUNE	.25	.2/	.08	. /8	.15	.06	.22	./8	.07	
JULY	.30	.25	.10	19	.16	.06	.25	.21	.08	
AUG.	.26	.zz	.09	.16	.13	.05	.22	.18	.07	
SEPT.	•/7	.14	.06	. 10	.08	.03	./3	.11	.04	
ост.	.10	.08	<u>ო</u>	.05	.04	.02	. 07	.06	.02	

Consumptive use studies conducted on alfalfa at Fort Sumner, Portales, and Lovington by the SCS have given us a refined data base on which to make consumptive use computations.

Alfalfa, cut for hay once a month during the growing season, has a variable daily consumptive use rate which reaches a peak value just prior to cutting and a low value which occurs immediately after cutting.

To obtain a consumptive use value for planning or sizing a system, the mean value shown in the table should be used.

For irrigation depth and frequency determinations, the peak daily value is approximately 1.2 times the mean value, while the low value of daily consumptive use is approximately .4 times the mean daily value.

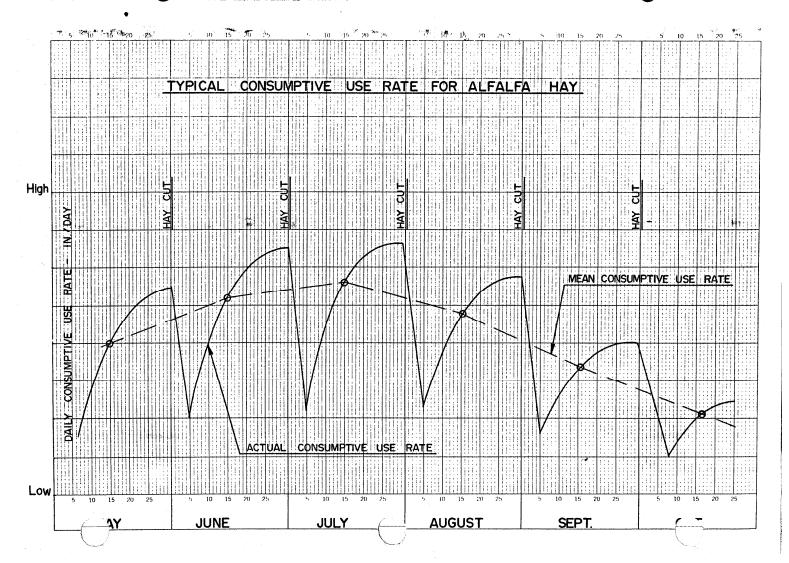
Alfalfa grown for seed production will have a consumptive use value equal to the peak value during full cover until the middle of full bloom.

As irrigation pumping costs have increased, and many water supplies have dwindled, many alfalfa hay growers are aiming not at maximum hay production per acre, but rather at a maximum hay production per acre-inch of water applied. In areas where this is the grower's objective, a planning or sizing value of .85 to .9 times the mean is applicable to a system devoted to alfalfa hay.

The yearly volumes shown for CU, CIR, and ACIR are calculated using the mean value.

(Over)

YEARLY VOLUME AT 100% EFFICIENCY							
CU	CIR	ACIR					
30.°	17.9"	23.9"					



CONSUMPTIVE USE REQUIREMENTS

CC-TRZ/-5/8/

FOR

CLAYTON FIELD OFFICE

							y 	·
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YEAR	TOTAL CIR "/YEAR	TOTAL ACIR "/YEAR
Cool.								
Season				· · · · · · · · · · · · · · · · · · ·				
Irrigate	d April	.07	.03	.05		28.3	14.4	2/.4
Pasture	May	./2	.03	.08		~0.5	7 7	
	June	.17	• //	.14				
	July	.2/	./2	.17	J. J.			
	Aug.	./8	.09	.14				
		./2	.06					
	Sept.	.07	.03	.09				
	Oct.	.01	.03	.05				
					er r - w			
Warm								
Season								
Irrigate			*****			24.2	12.6	18.4
Pasture	May	.12	.03	.08				
	June	. 17	• //	.14				
	July	.2/	./2	.17				
	Aug.	•/8	.09	.14				·
	Sept.	./2	.06	.09				
	Oct.		*****					
							-	
The cons	umptive u	se of irr	igated p	sture fo	llows the	same ger	eral flu	tuations
during t	ne growin	g season	as those	shown fo	r alfalfa	, except	that the	se changes
are due	to not on v can van	<mark>ľy cutti</mark> n y greatly	g for had	r, but al	so grazin m. no att	y. Since empt has	been mad	to plot
these fl	ctuation	s. There	fore, the	above d	ata refle	cts the n	ean mont	lly or
		the cons					 	
		•						

CONSUMPTIVE USE REQUIREMENTS for CLAYTON Field Office

							,	
CROP	MONTH	CU "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
CORN	MAY	.07		.03		23.5	12.7	/8./
	JUNE	./2	.06	.06				
	JULY	.22	./3	· /8				
	AUG.		.14	./9				
	SEPT.	.15	.09	./2				
	OCT.	.08	.04	.06				
GRAIN SORGHUM	MAY	.05		<u> </u>		22.2	//.3	16.7
	JUNE	. 12	.06	.06				
	JULY	.24	.15	.20				
	AUG.	. 2/	.12	./7				
	SEPT.	. //	.05	.08				
	OCT.	.05	.0/	.03				
SOYBEANS	mey	. 03				17.2	6.4	11.8
	JUNE	.07	.01	.04				
	2024	. /3	.04	.09				
	AUG.	.20	. 1/	.16				
	SEPT.	.14	.08	.11		<u> </u>		ļ
	OCT.	.06	.02	.04				
WINTER				- //	<u> </u>		10.0	1=0
SMALL GRAINS		.072		.04		19.9	10.0	15.0
GICH1102	OCT.	.10%	.06	.08				
	APRIL	. /23/	.08	.10				
	may	.1957	1	.15				
	JUNE	.1751	1	.14				
	ZULY		Į.					<u> </u>

CONSUMPTIVE USE REQUIREMENTS	cc-TR21-5/81
for	
CLAYTON	Field Office

	CROP	MONTH	cu "/DAY	CIR "/DAY	ACIR "/DAY		TOTAL CU "/YR	TOTAL CIR "/YR	TOTAL ACIR "/YR
	SPRING SMALL	MAR.	.02		-01		10.6	4.7	7.8
	GRAIN	APRIL	.09	.05	.07				
		mAY	.17	.08	./3				
		JUNE	. 07	.01	.04				
	FOR AGE SORGHUM	MAY	.07		.02		20.0	9.7	14.8
		JUNE	./3_	.07	./0				
		20LY	.22	./3	. 18				
		AUG.	-19	.10	.15				
		SEPT.	.09	.03	.06				
e November (1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 19	MATURE							<u> </u>	
	WING- BREAKS	MAY	.04				25.2	12.5	18.9
	BREAKS	JUNE	.09	.03	.06				
		JULY	.19	.10	.15				
		AUG	.23	.14	./9			ļ	
		SEPT	.20	.14	./7				
		OCT.	.09	.05	.07				
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	L	<u></u>	<u> </u>				IIS GOVE	NMENT PRINTING OFF	ICE : 1971—0-416-224